

CONTENS

A. State of the art	6
1. Introduction	6
2. Principals of protection against radon	6
3. Sub-slab depressurization systems	7
B. Author's contribution to the development and advancement of sub-slab depressurization systems	8
1. Development of the new types of sub-slab depressurization systems	8
1.1. Network of perforated pipes in the drainage layer	9
1.2. Perforated tubes drilled in the sub-floor region	9
1.3. Radon sumps in the Czech conditions	11
1.4. Radon wells in the Czech conditions	12
1.5. Specification of sub-slab depressurization systems	12
2. Efficiency analysis of sub-slab depressurization systems	13
2.1. Method of verification	13
2.2. Factors influencing the efficiency	15
3. Analysis of side effects of soil depressurization	18
C. Concluding remarks	20
References	20
Curriculum vitae	22